

003260 " 289TCS60

FIG.1

2: SPEECH WAVEFORM COMPOSING MEANS

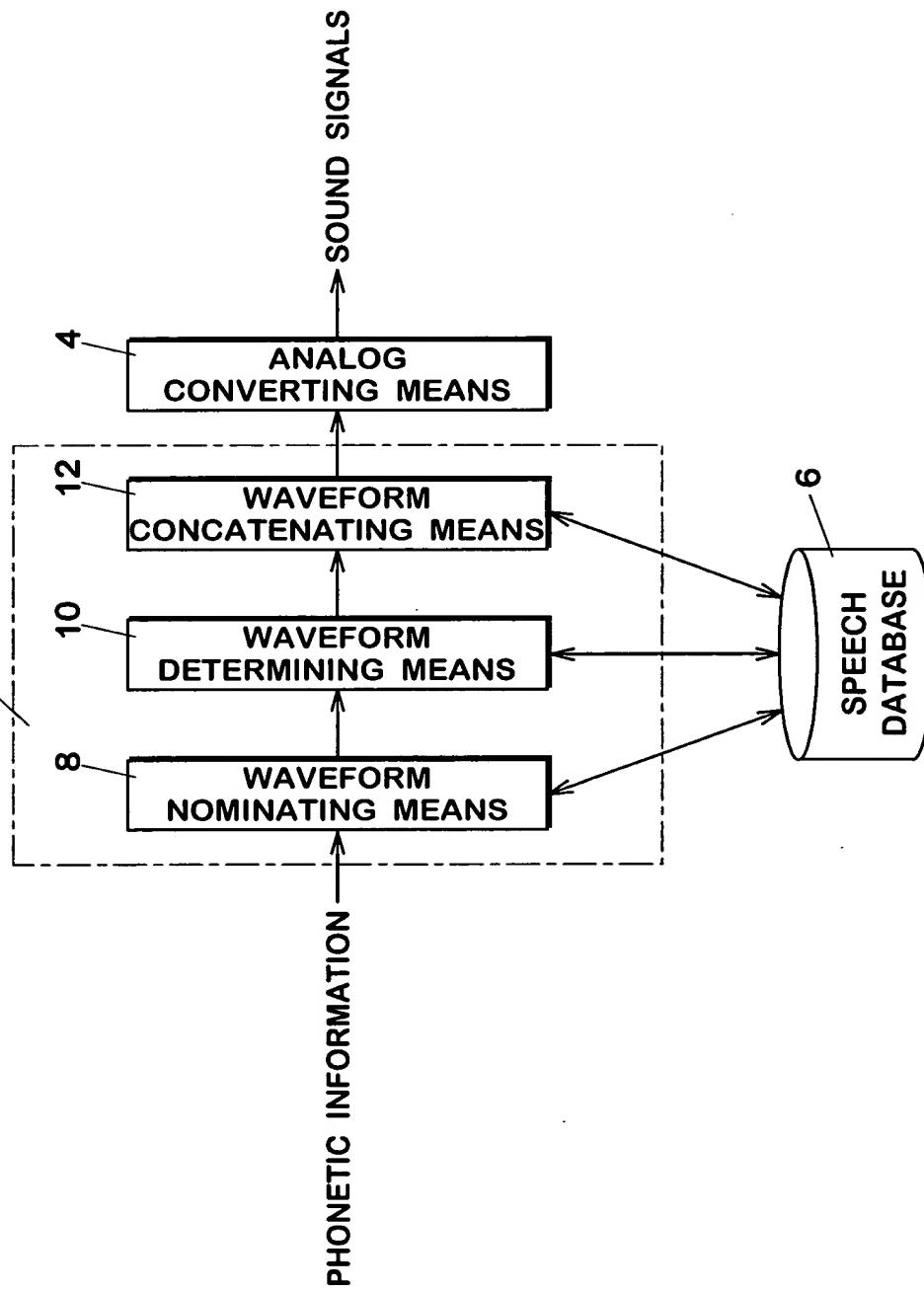


FIG.2

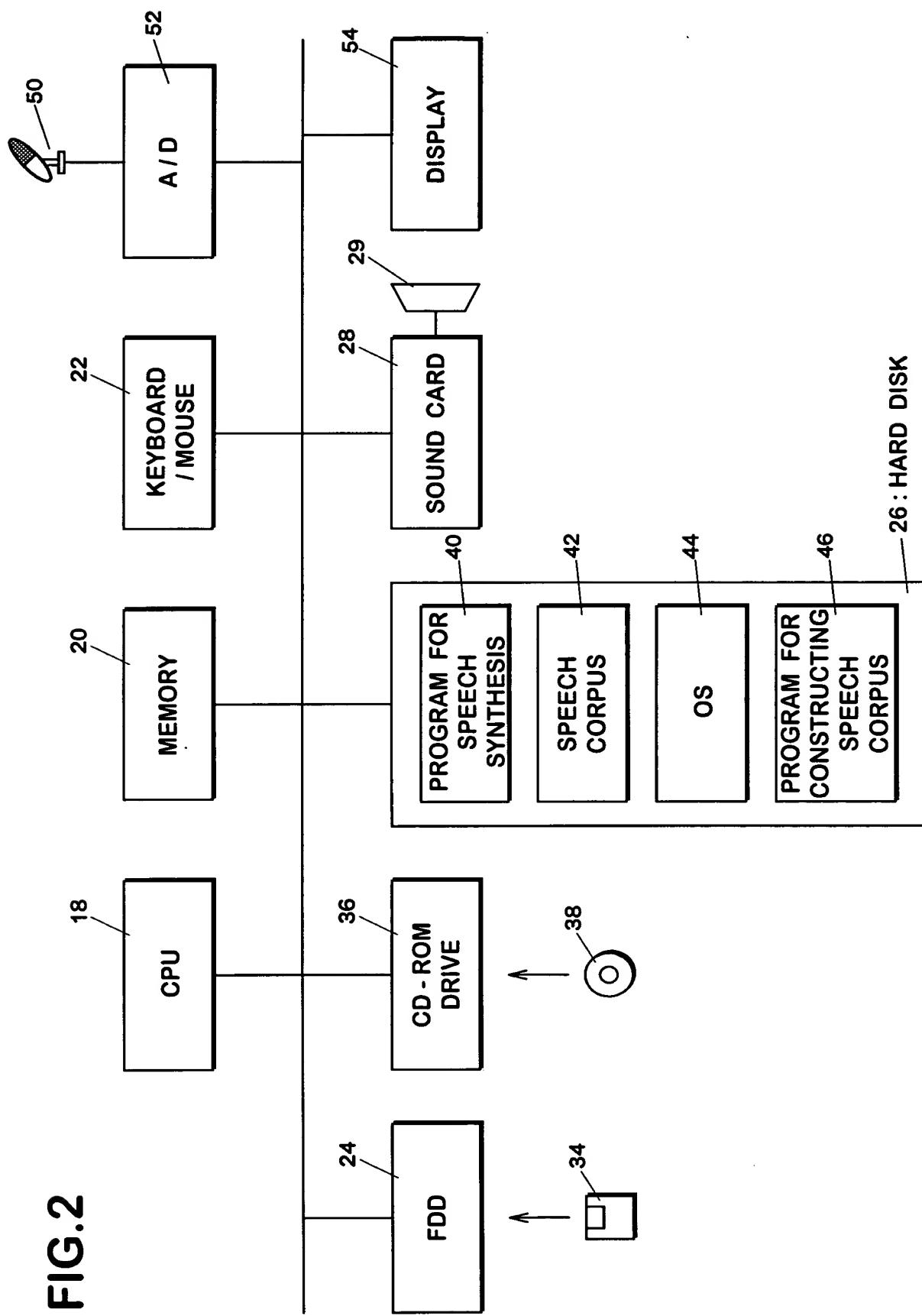


FIG.3

SPEECH CORPUS CONSTRUCTING PROGRAM

03621583 092800

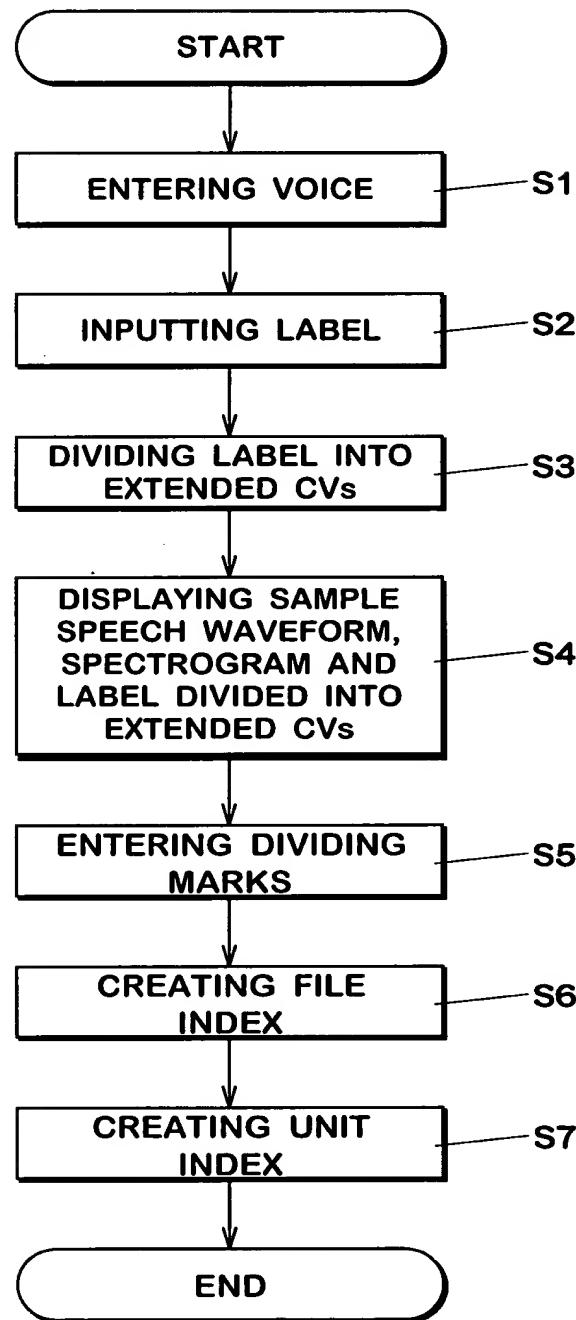


FIG.4A



FIG.4B

ra i u chu : i ho : ga

FIG.5

CONSTRUCTION OF EXTENDED CV

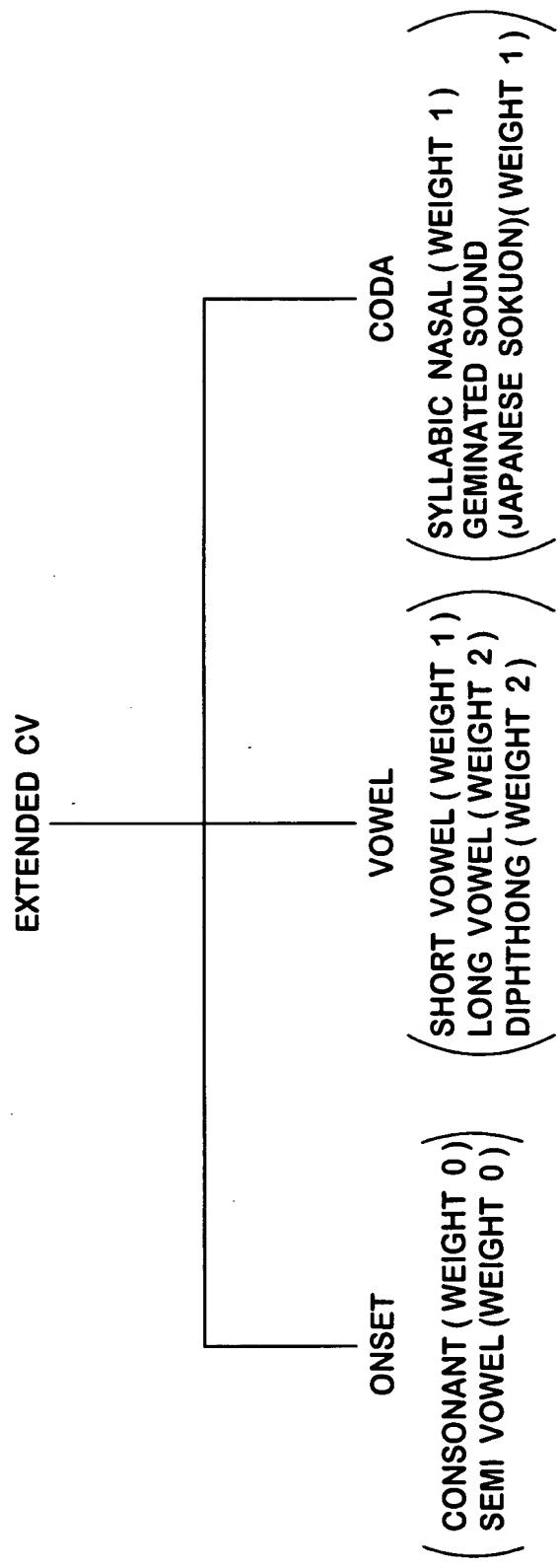
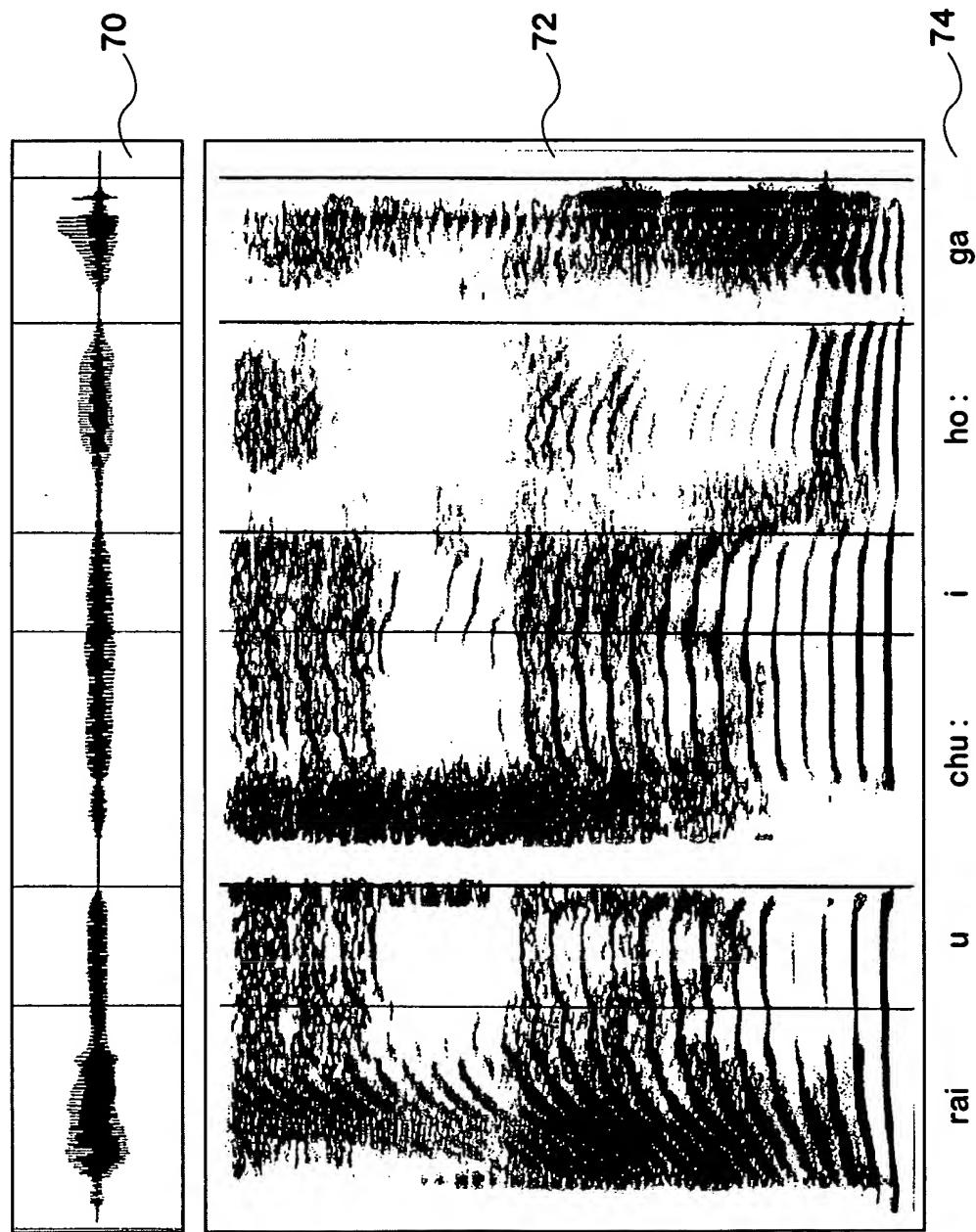


FIG.6

SYLLABLE WEIGHT	TYPE OF SYLLABLE WEIGHT	SYLLABLE CONSTRUCTION	EXAMPLE
1	LIGHT SYLLABLE	(C) (y) V	ka, sa, ta, na, ha, ma, ya, ra,... a, i, u, e, o, che, pya,....
2	HEAVY SYLLABLE	(C) (y) VR (C) (y) VJ (C) (y) VN (C) (y) VQ	to:, ya:, kyu:, pyu:,... kai, nou, ai, ui, pyua,... kaN, aN, myaN, chaN,... chuQ, ryaQ, jaQ, hyaQ,...
3 OR MORE	SUPER HEAVY SYLLABLE	(C) (y) VRN (C) (y) VRQ (C) (y) VJN (C) (y) VJQ (C) (y) VNQ AND THE LIKE	che:N, ju:N, a:N, ... u:Q, che:Q,... saiN, pauN, auN, chaiN,... kaiQ, daiQ, kyaiQ, uiQ,... doNQ, uNQ, chaNQ,...

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FIG.7



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FIG.8

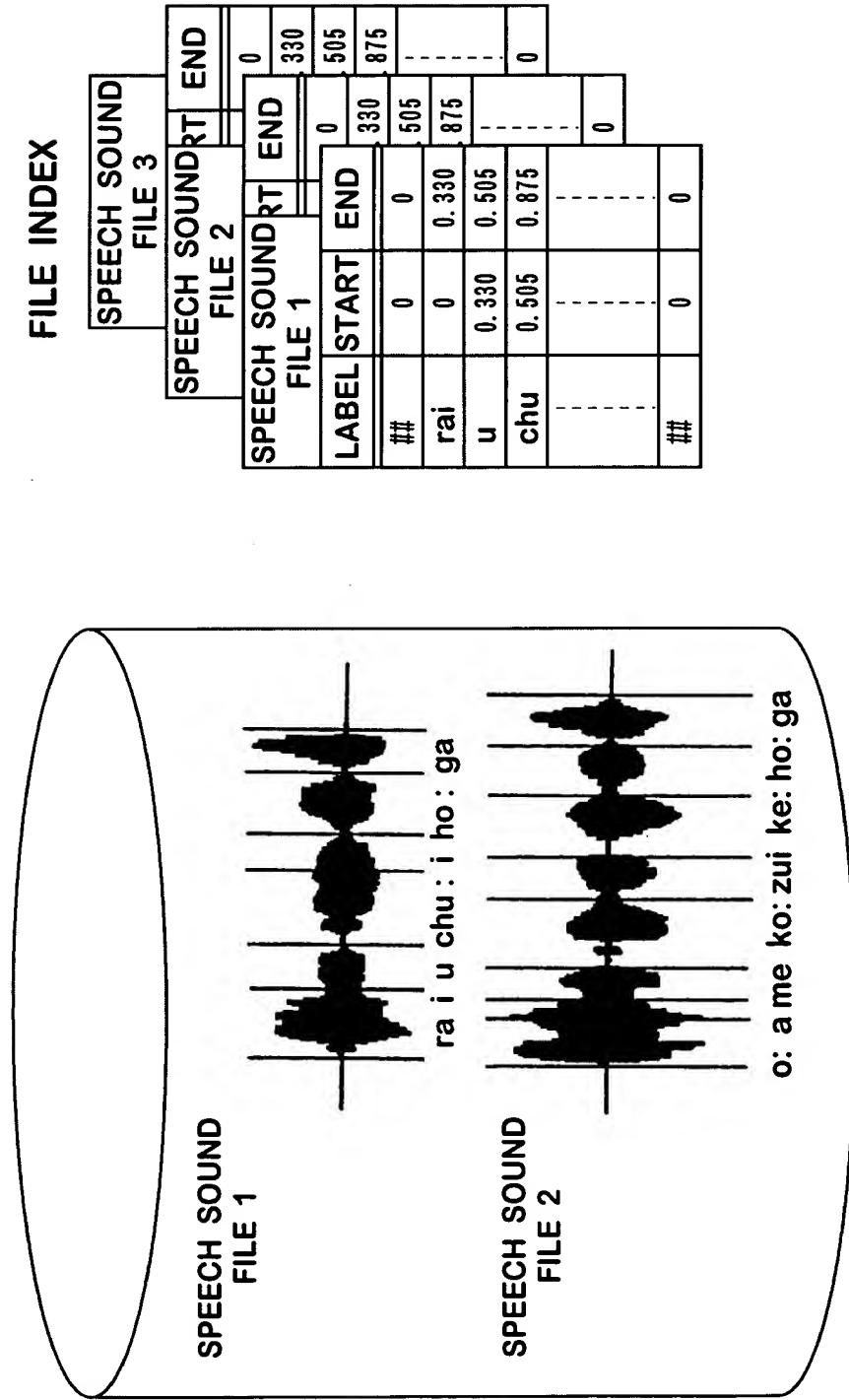


FIG.9

UNIT INDEX

ga	SPEECH	SOUND FILE NUMBER	
u	SPEECH	SOUND FILE NUMBER	6
rai	SPEECH	SOUND FILE NUMBER	6
ho:	SPEECH	SOUND FILE NUMBER	6
zui	SPEECH	SOUND FILE NUMBER	1
ko:	SPEECH	SOUND FILE NUMBER	5
chu:	SPEECH	SOUND FILE NUMBER	2
	SPEECH	SOUND FILE NUMBER	1
	FILE 1		3
	FILE 2		3
			2
			3
			3
			-

FIG.10

<SPEECH SYNTHESIS PROCESSING PROGRAM>

0008260-00074960

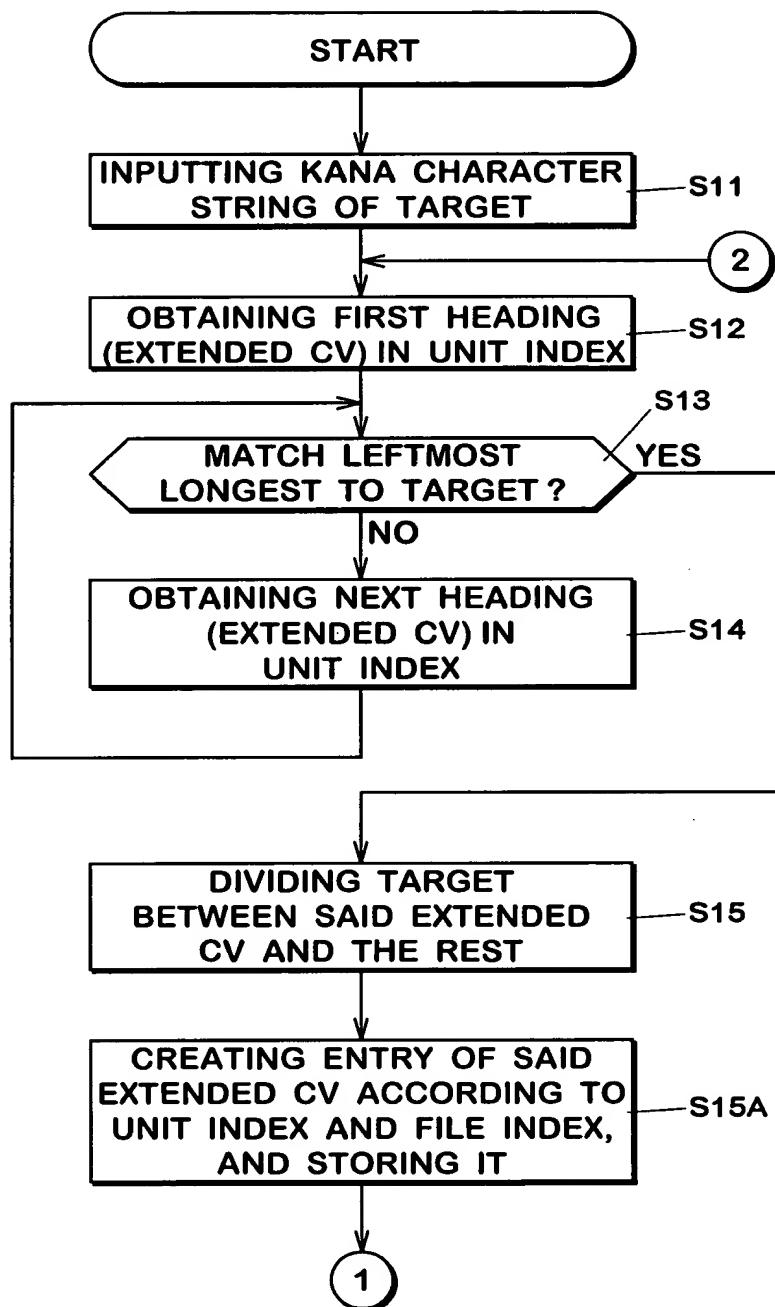
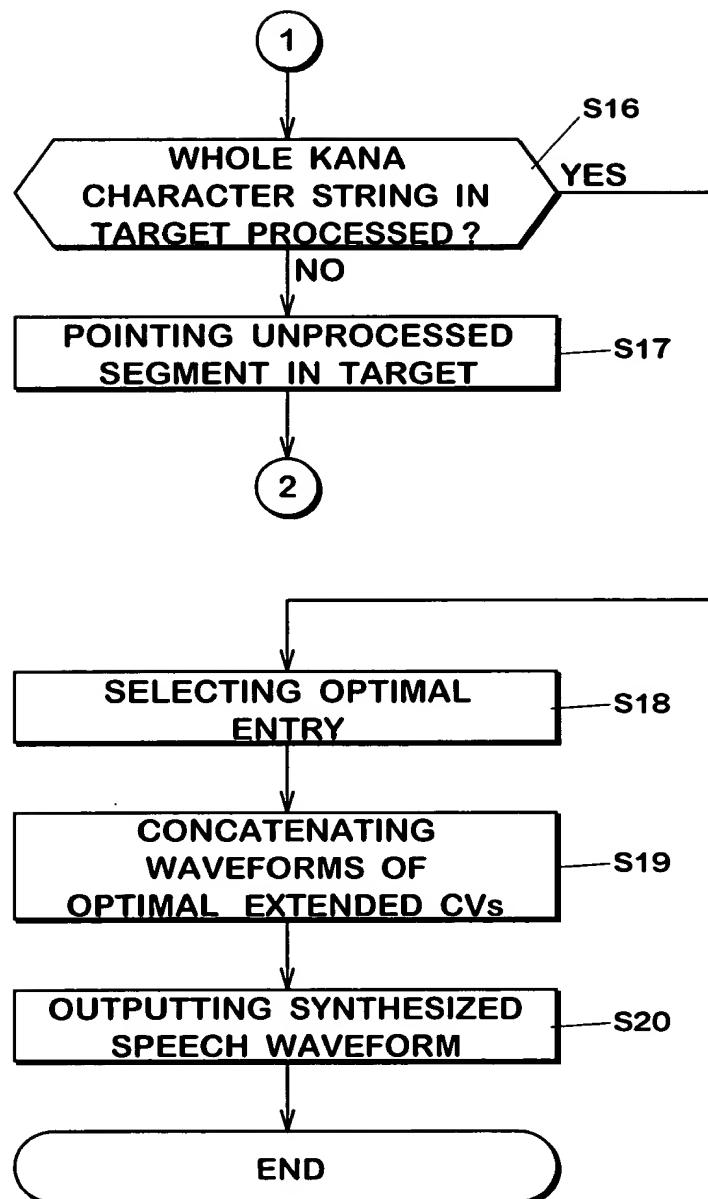


FIG.11

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FIG. 12A

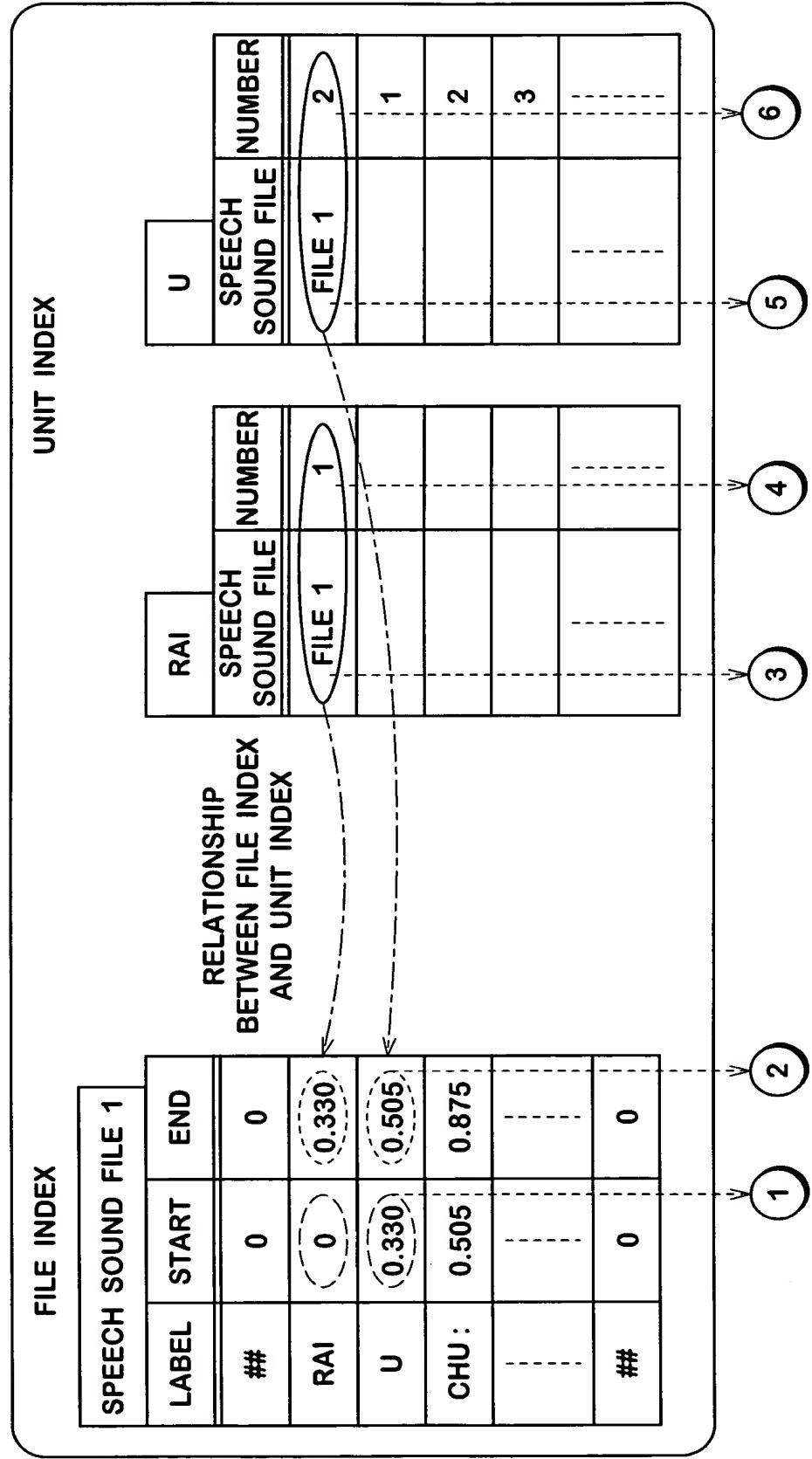
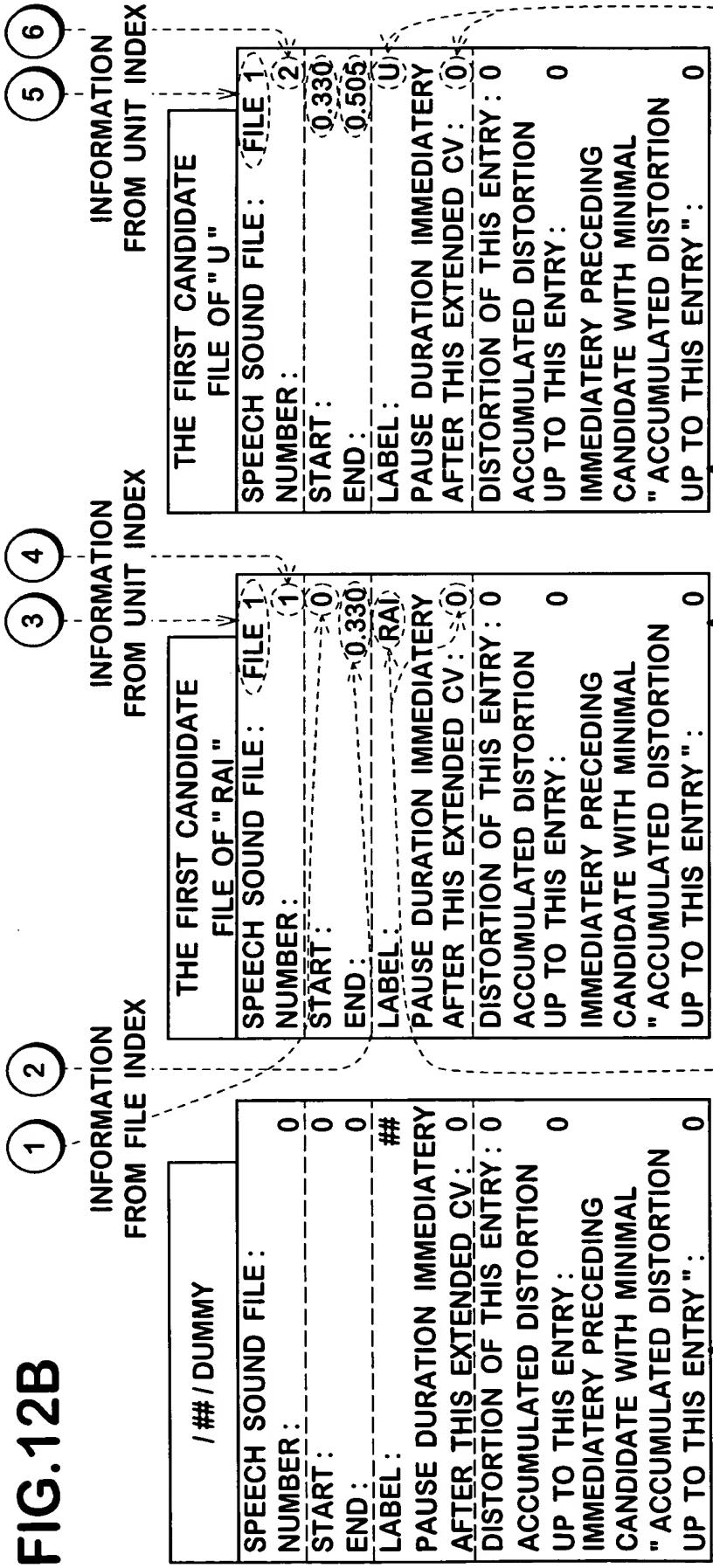
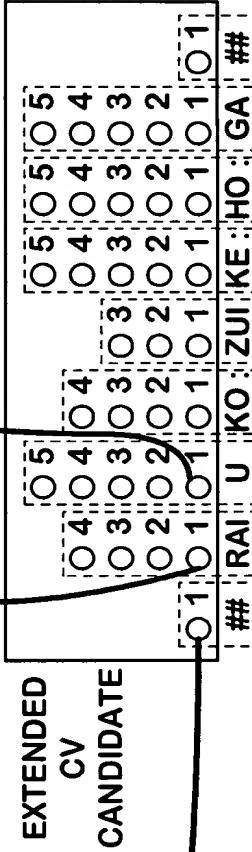


FIG. 12B

INFORMATION FROM TARGET

ENTRY IS STORED ONE BY ONE WHILE OBTAINING INFORMATION FROM INDEXES AND THE TARGET

A DUMMY ENTRY IS STORED FOR JUDGING COMPLETION OF REPEATING PROCESS



SPEECH UNIT SEQUENCE OF THE TARGET TO BE COMPOSED

FIG.12C

SELECT THE OPTIMAL SPEECH UNIT WHICH MINIMIZES
ENVIRONMENT DISTORTION AND CONTINUITY DISTORTION

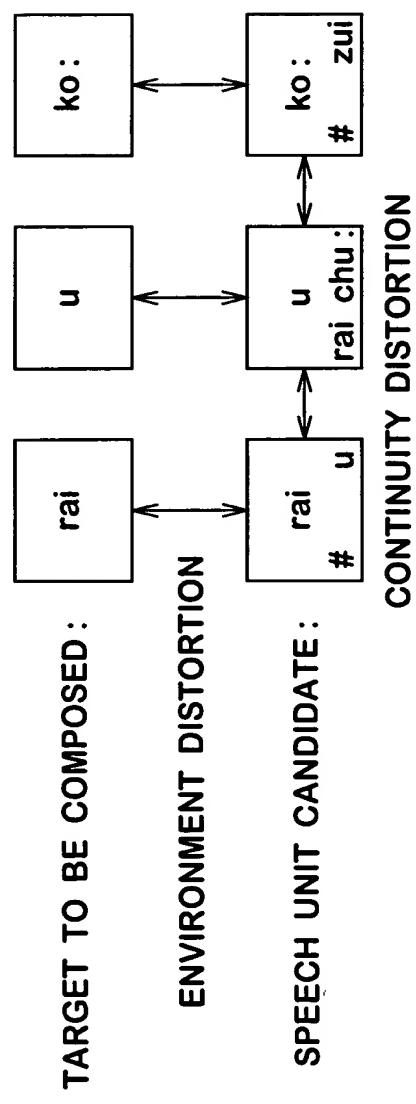
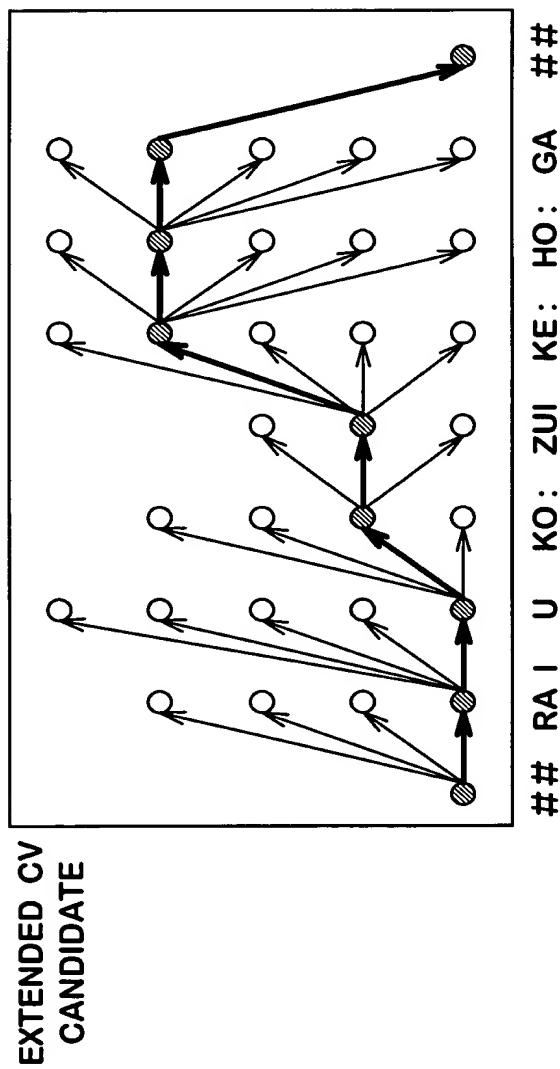


FIG.13



SPEECH UNIT SEQUENCE OF THE TARGET TO BE COMPOSED
(● IS THE OPTIMAL SPEECH UNIT)
(→ IS THE OPTIMAL SEQUENCE OF SPEECH UNIT CANDIDATES)

FIG.14



FIG.15

120 : SPEECH WAVEFORM COMPOSING MEANS

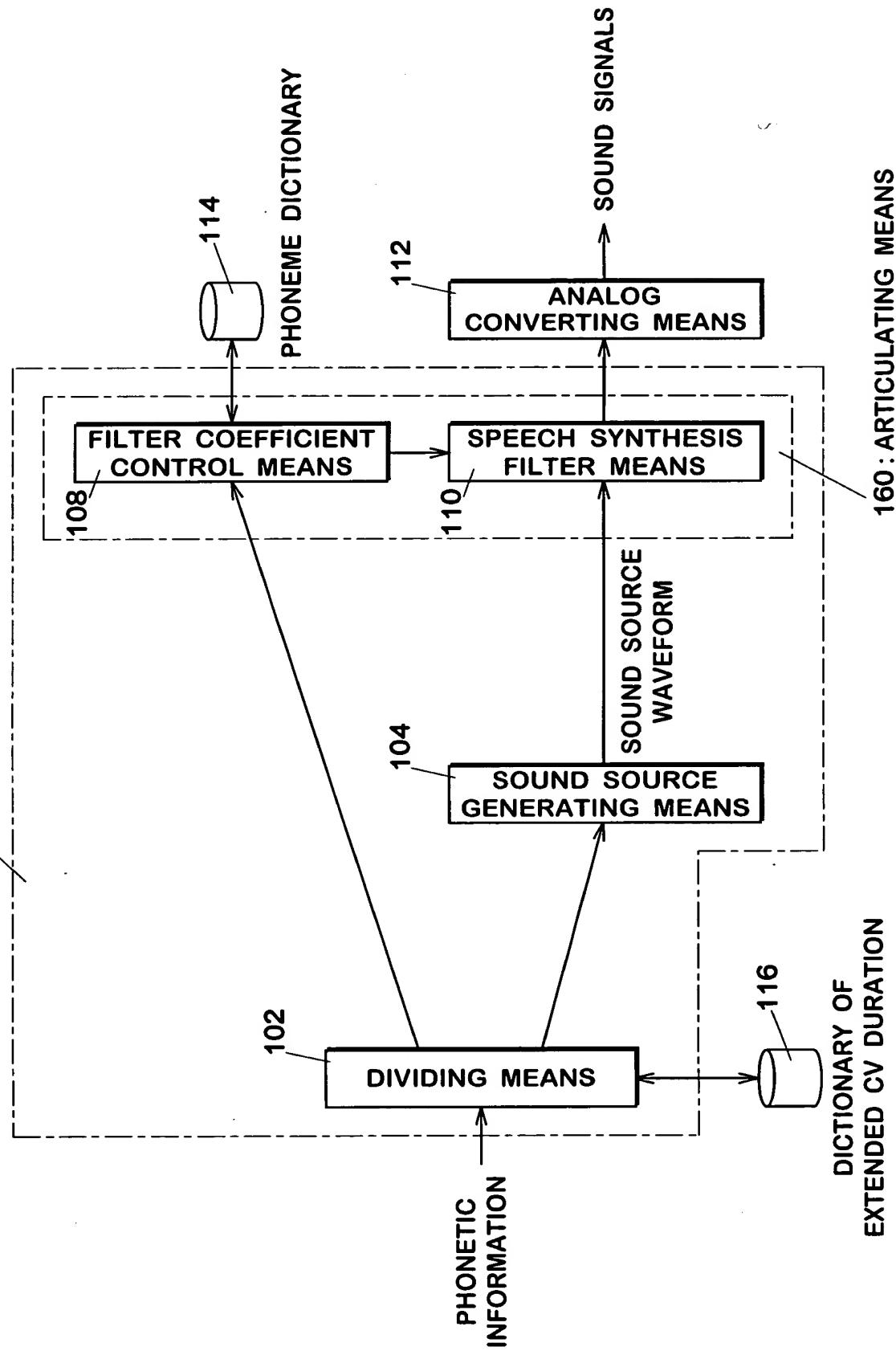


FIG.16

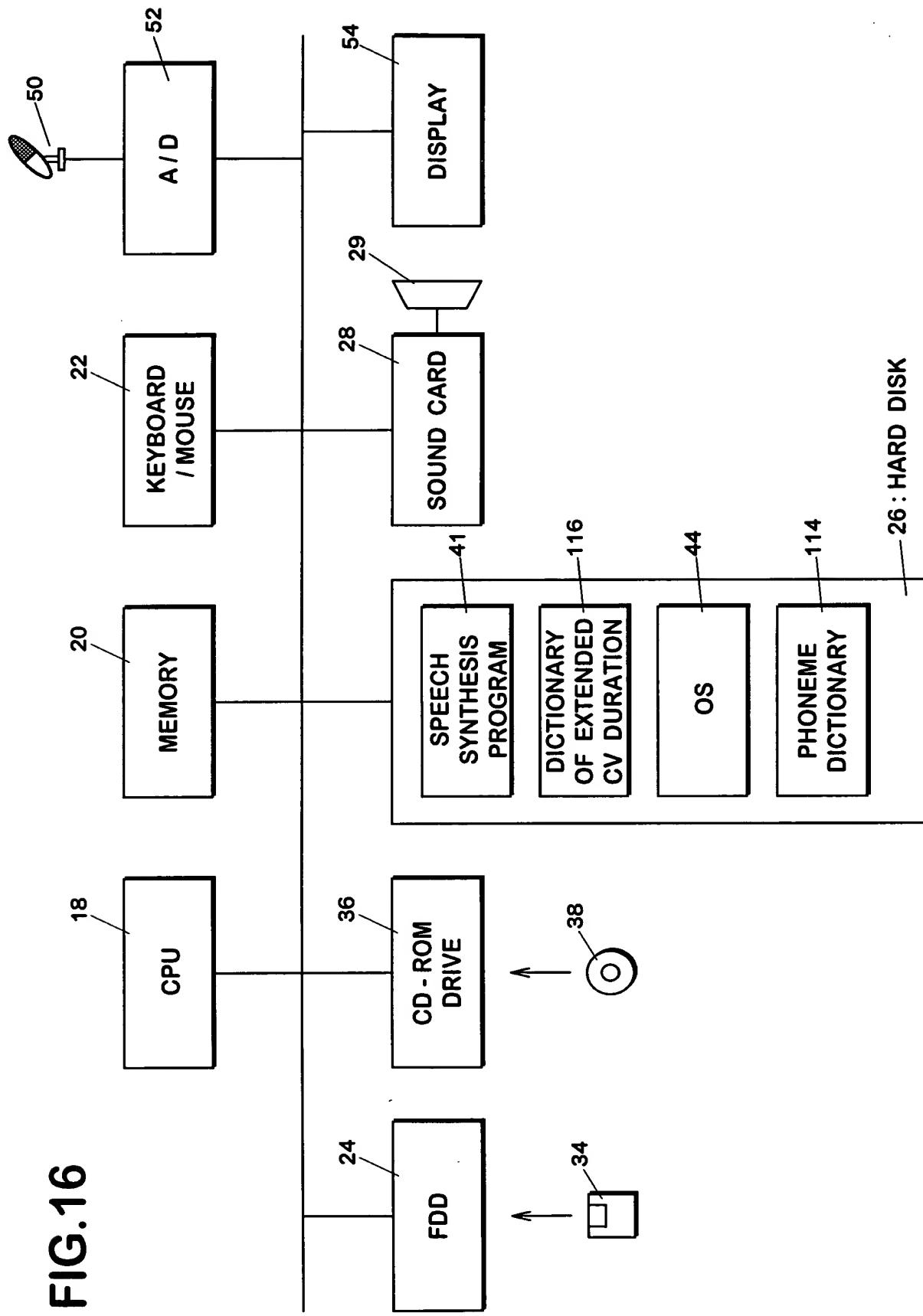


FIG.17

SPEECH SYNTHESIS PROCESSING PROGRAM

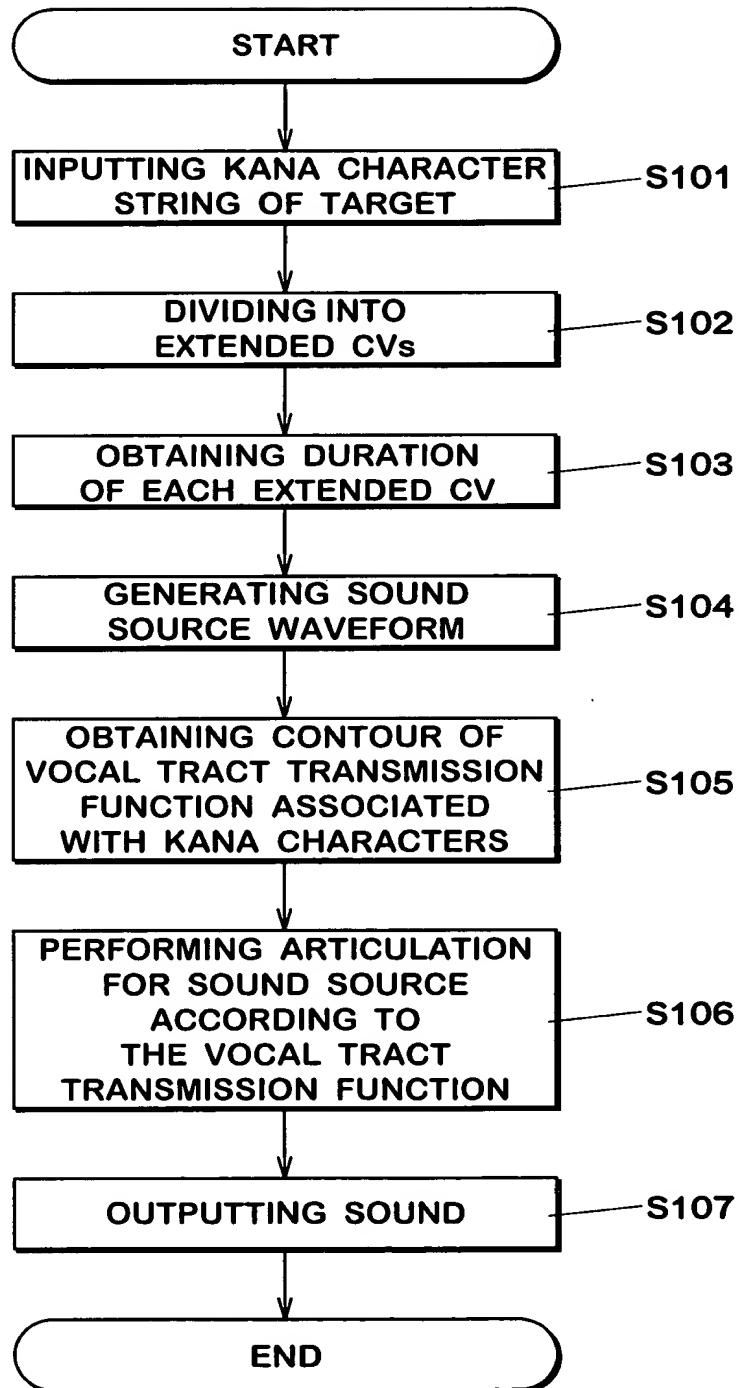


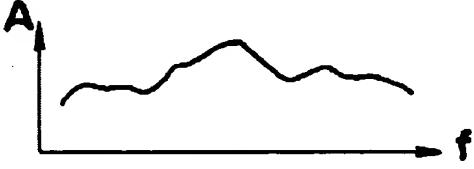
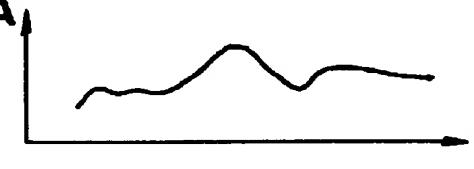
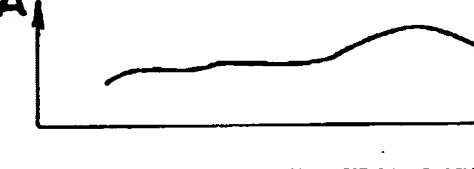
FIG.18

DICTIONARY OF EXTENDED CV DURATION

EXTENDED CV	DURATION : [MS]
CHU :	391
KO :	213

FIG.19

PHONEME DICTIONARY

EXTENDED CV	TIME	VOCAL TRACT TRANSMISSION CHARACTERISTIC
CHU:	0 ~ 2 ms	
	-	-
	383 ~ 391 ms	
ZUI	0 ~ 3 ms	
	-	-
	201 ~ 223 ms	
<hr/>		

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